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AMENDMENTS TO THE CLAIMS

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. When strikethrough cannot easily be perceived, or when five or fewer characters are deleted, [[double brackets]] are used to show the deletion. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered). Please AMEND claims 6, 7, 12, 13, and 15 in accordance with the following:

1. (Original) A power supply module having a primary winding coupled with secondary windings by a transformer, and comprising:

a component-mounting layer on which the primary winding, the transformer, a primary side circuit, and a secondary side circuit are mounted;

a first inner layer on which a pattern of a first secondary winding of the secondary windings drawn out in one direction is formed; and

a second inner layer on which a pattern of a second secondary winding of the secondary windings drawn out in the other direction is formed,

wherein an output pattern film of the second secondary winding is formed on the first inner layer, and an output pattern film of the first secondary winding is formed on the second inner layer.

2. (Original) The power supply module according to claim 1, further comprising:

a third inner layer on which a pair of ground films for the first and the second secondary windings is formed.

3. (Original) The power supply module according to claim 1,

wherein, on the component-mounting layer, a secondary side circuit of the first secondary winding is disposed on one side of the transformer, and a secondary side circuit of the second secondary winding is disposed on the other side of the transformer.

4. (Original) The power supply module according to claim 3, wherein the component-mounting layer comprises:

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a first component-mounting layer having a rectifier circuit for the secondary side circuit of the first secondary winding, being disposed on one side of the transformer, and a rectifier circuit for the secondary side circuit of the second secondary winding, being disposed on the other side of the transformer; and

a second component-mounting layer having a smoothing circuit for the secondary side circuit of the first secondary winding, being disposed on one side of the transformer, and a smoothing circuit for the secondary side circuit of the second secondary winding, being disposed on the other side of the transformer.

5. (Original) The power supply module according to claim 2,

wherein the secondary side circuit mounted on the component-mounting layer, the first secondary winding and the output pattern film formed on the first inner layer, the second secondary winding and the output pattern film formed on the second inner layer, and the pair of ground films formed on the third inner layer are connected through vias.

6. (Currently Amended) The power supply module according to ~~claim 4~~claim 4, wherein the rectifier circuit for the secondary side circuit mounted on the component-mounting layer comprises:

a switching element; and
a switching control circuit.

7. (Currently Amended) The power supply module according to claim 1, further comprising:

an input terminal connected to the primary winding; and
~~an output terminal~~a pair of output terminals connected to the output pattern film of the first secondary winding and the output pattern film of the second secondary winding, respectively.

8. (Original) An electronic apparatus comprising:

a power supply module having a primary winding coupled with a secondary winding by a transformer; and
an electronic device operated by power supplied from the power supply module,

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wherein the power supply module comprises:

a component-mounting layer on which the primary winding, the transformer, a primary side circuit, and a secondary side circuit are mounted;

a first inner layer on which a pattern of a first secondary winding of the secondary windings drawn out in one direction is formed; and

a second inner layer on which a pattern of a second secondary winding of the secondary windings drawn out in the other direction is formed, and

wherein an output pattern film of the second secondary winding is formed on the first inner layer, and an output pattern film of the first secondary winding is formed on the second inner layer.

9. (Original) The electronic apparatus according to claim 8, wherein the power supply module further comprises:

a third inner layer on which a pair of ground films for the first and the second secondary winding is formed.

10. (Original) The electronic apparatus according to claim 8, wherein the component-mounting layer of the power supply module further comprises:

a secondary side circuit of the first secondary winding, being disposed on one side of the transformer, and a secondary side circuit of the second secondary winding, being disposed on the other side of the transformer.

11. (Original) The electronic apparatus according to claim 10,

wherein the component-mounting layer of the power supply module comprises:

a first component-mounting layer having a rectifier circuit for the secondary side circuit of the first secondary winding, being disposed on one side of the transformer, and a rectifier circuit for the secondary side circuit of the second secondary winding, being disposed on the other side of the transformer; and

a second component-mounting layer having a smoothing circuit for the secondary side circuit of the first secondary winding, being disposed on one side of the transformer, and a smoothing circuit for the secondary side circuit of the second secondary winding, being disposed on the other side of the transformer.

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12. (Currently Amended) The electronic apparatus according to claim 9, wherein the power supply module further has via connections of the secondary side circuit mounted on the component-mounting layer, the first secondary winding and the output pattern film formed on the first inner layer, the second secondary winding and the output pattern film formed on the second inner layer, and the pair of ground films formed on the third inner layer.

13. (Currently Amended) The electronic apparatus according to ~~claim 8~~ claim 11, wherein the rectifier circuit for the secondary side circuit mounted on the component-mounting layer of the power supply module comprises:

- a switching element; and
- a switching control circuit.

14. (Original) The electronic apparatus according to claim 8, wherein the power supply module further comprises:
an input terminal connected to the primary winding; and
an output terminal connected to the output pattern film.

15. (Currently Amended) The electronic apparatus according to claim 8, wherein the power supply module further comprises:
a substrate for mounting the electronic device; and
a connector connecting the power supply module to the substrate.